

Thermal Recycling Services

Thermal Recycling Services provides sustainable waste solutions for recoverable organic materials.



Providing an environmental solution to the alternative disposal methods of incineration, stabilization and landfill.

US Ecology Thermal Recycling Services offers a unique recycling solution to any market sector that generates recoverable organic waste. US Ecology Texas maintains a Subpart-X permit, which enables the facility to operate as a Verified Recycler, making customers potentially eligible to reduce their liability and cost by granting their outbound waste streams exemption from RCRA status. Any generator of hazardous secondary materials (HSM)—such as refinery oil-bearing waste, listed and characteristic hazardous byproducts, and sludges where organic constituents are fuels themselves—is eligible to apply for exemption and ship their material on a Bill of Lading.

US Ecology has successfully secured a variance from the definition of solid waste for metal-bearing catalyst processed through the Thermal Desorption Unit (TDU). The variance allows the partially reclaimed metal-bearing catalyst to be excluded from solid waste. The partially reclaimed metal-bearing catalyst is no longer considered a hazardous waste, but rather is a product that can be sold in commerce.

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Ability to process and recycle several waste streams

- Organic-bearing waste from petroleum, petrochemical, ethylene processing and other manufacturing practices
- Organic-bearing liquids, sludges and solids
- Metal-bearing catalysts
- RCRA Listed (K171 and K172), characteristic and non-hazardous catalyst
- RCRA exempted (HSM) metal-bearing catalyst

Advantages of thermal desorption technology

- Sustainable waste management solution preferred over incineration and other technologies
- Verified Recycler status makes customers eligible for RCRA exemption
- NESHAP compliant
- Potential rebate for metal recovery
- Reduced liability for customers
- Convenient, turnkey services